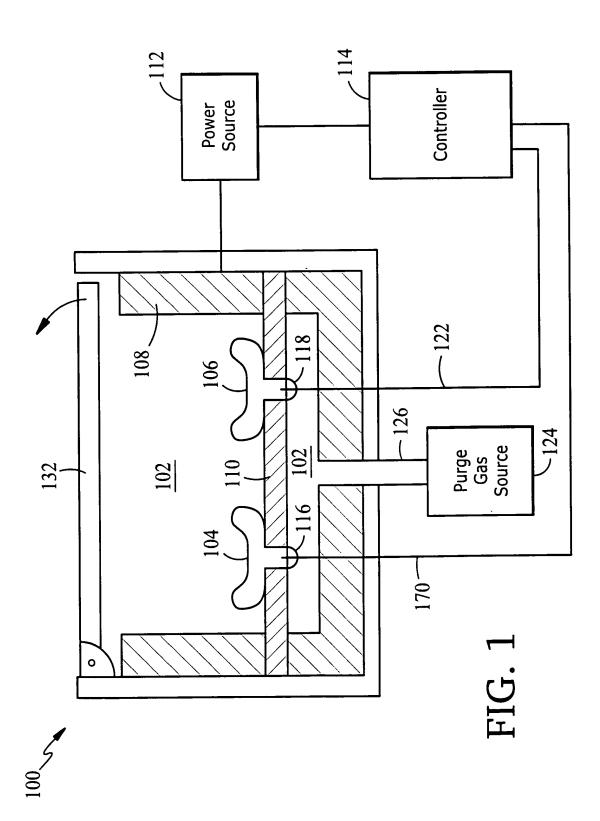
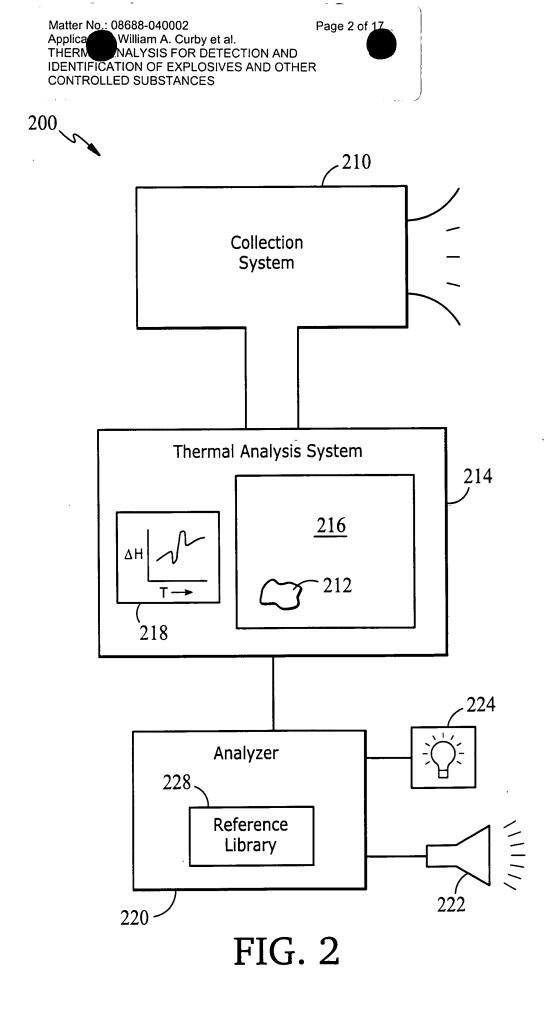
Inter No.: 08688-040002

Ilicant(s): William A. Curby et al.

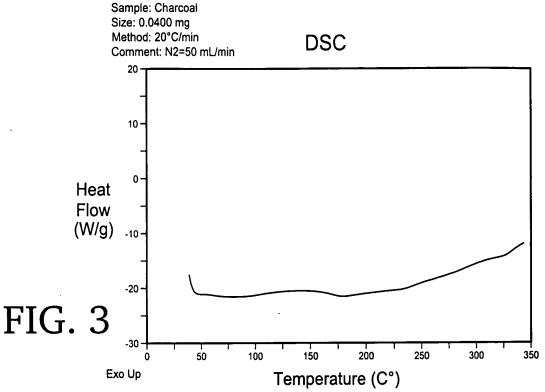
IDENTIFICATION OF EXPLOSIVES AND OTHER

CONTROLLED SUBSTANCES

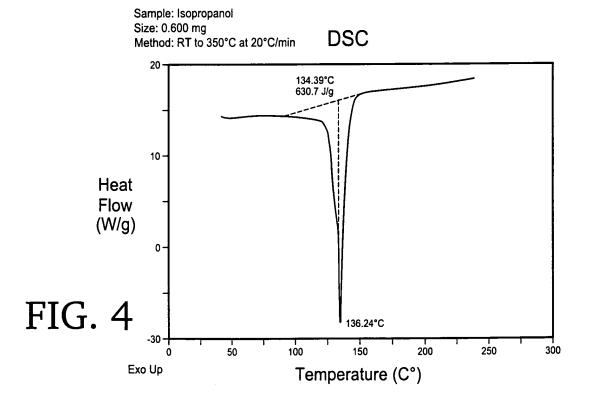




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IMAL ANALYSIS FOR DETECTION AND IDENTIFICATION OF EXPLOSIVES AND OTHER CONTROLLED SUBSTANCES



DSC thermogram of charcoal, sample weight is 0.04 mg



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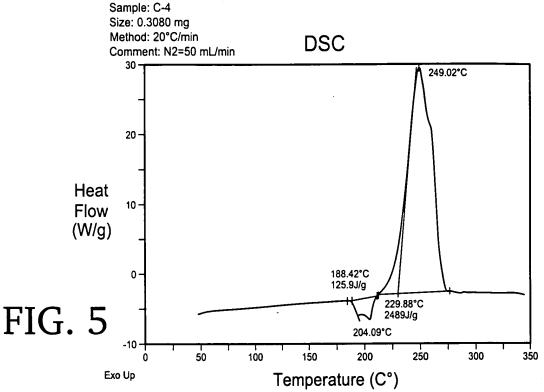
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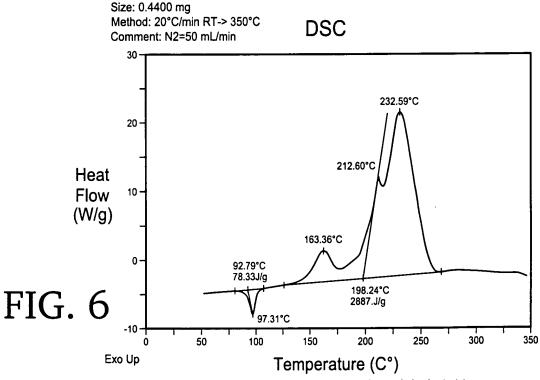
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Sample: UMass HMTD



DSC thermogram of C-4, sample weight is 0.308 mg



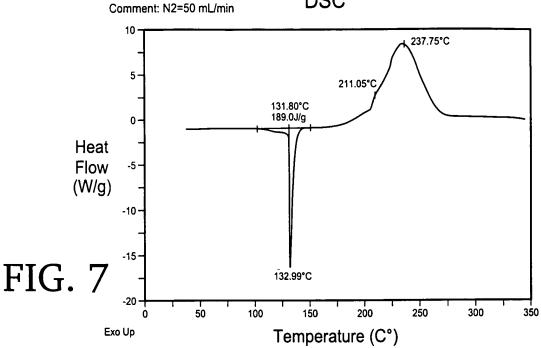
DSC thermogram of HMTD, sample weight is 0.44 mg

Page_5_of 17 nt(s): William A. Curby et al. AL ANALYSIS FOR DETECTION AND IDENTIFICATION OF EXPLOSIVES AND OTHER **CONTROLLED SUBSTANCES**

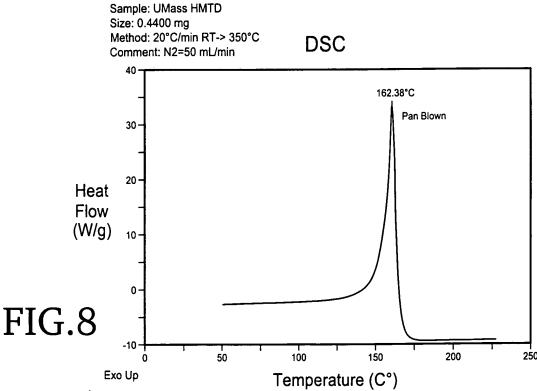
Sample: UMass DADP

Size: 0.6990 mg Method: 20°C/min RT->350°C

DSC



DSC thermogram of DADP, sample weight is 0.699 mg



DSC thermogram of HMTD, sample weight is 0.44 mg

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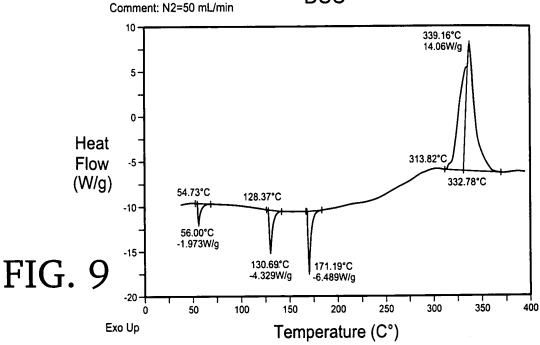
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77

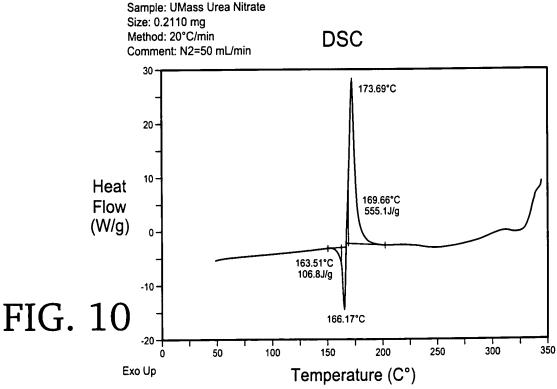


Size: 0.0900 mg

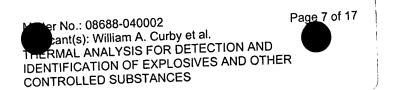
Method: 20°C/min RT->400°C DSC



DSC thermogram of Ammonium Nitrate, sample weight is 0.09 mg

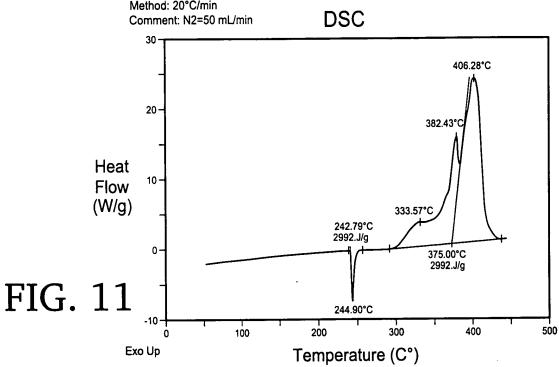


DSC thermogram of Urea Nitrate, sample weight is 0.211 mg

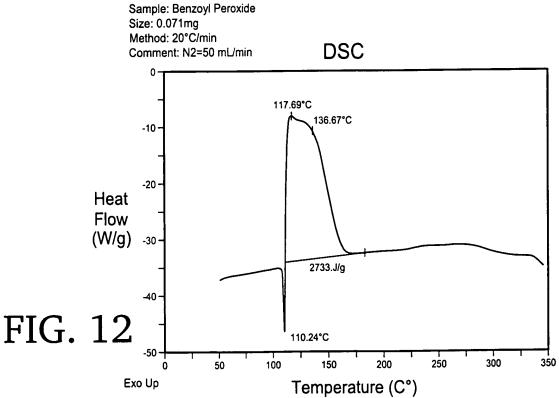


Sample: Ammonium Perchlorate

Size: 0.444 mg Method: 20°C/min



DSC thermogram of Ammonium Perchlorate, sample weight is 0.444 mg



DSC thermogram of Benzoyl Peroxide, sample weight is 0.071 mg

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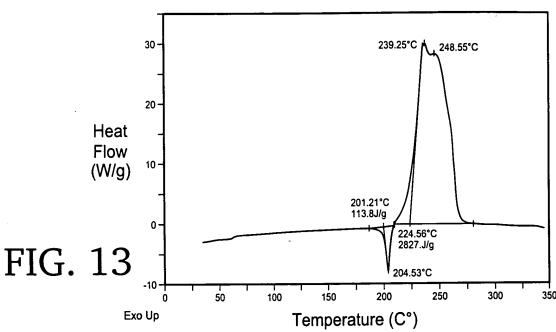
313

): William A. Curby et al. ANALYSIS FOR DETECTION AND IDENTIFICATION OF EXPLOSIVES AND OTHER

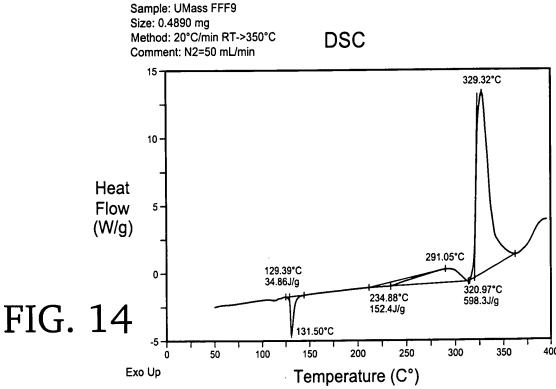
Sample: UMass RDX Size: 0.4000 mg

Method: 20°C/min RT-> 350°C

DSC Comment: N2=50 mL/min



DSC thermogram of RDX, sample weight is 0.400 mg

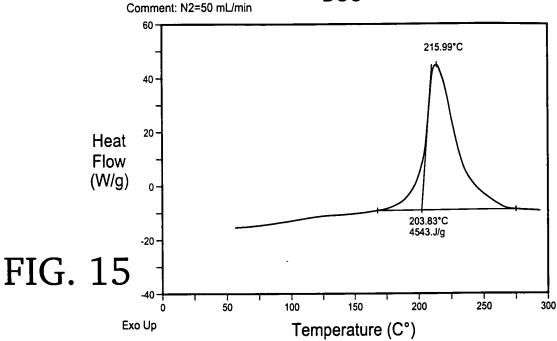


DSC thermogram of Black Powder, sample weight is 0.489 mg

Sample: UMass Remington

Smokeless Size: 0.0710 mg

DSC Method: 20°C/min RT->350°C

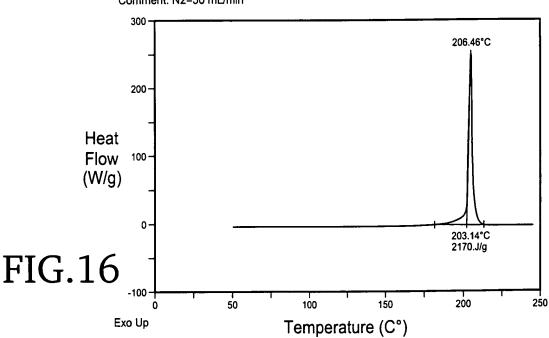


DSC thermogram of Smokeless Remington,, sample weight is 0.071 mg



Size: 0.2150 mg

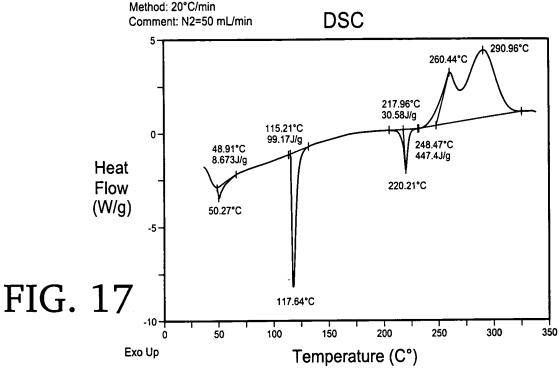
Method: 20°C/min RT-> 350°C **DSC** Comment: N2=50 mL/min



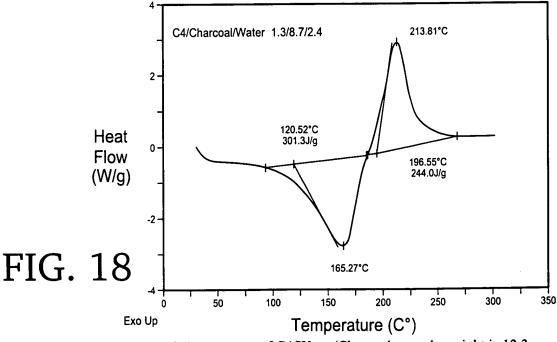
DSC thermogram of Mil. Spec. Ammo., sample weight is 0.215 mg

Sample: 2,3-Dimethyl-2,3-dinitrobutane

Size: 0.1840 mg Method: 20°C/min

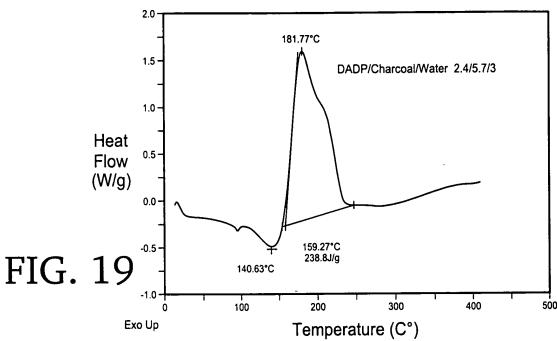


DSC thermogram of 2,3-dimethyl1-2,3-dinitrobutane, sample weight is 0.184 mg

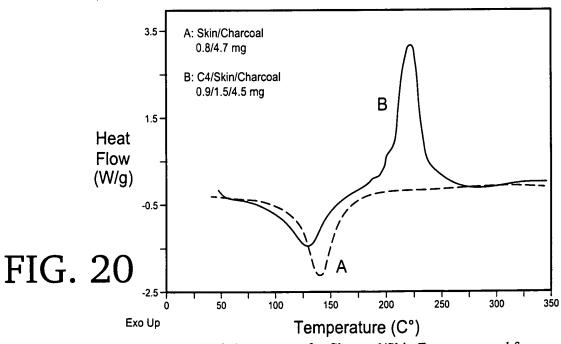


DSC thermogram of C4/Water/Charcoal, sample weight is 12.3 mg

CONTROLLED SUBSTANCES



DSC thermogram of DADP/Water/Charcoal, sample weight is 11.1 mg



DSC thermogram for Charcoal/Skin Fragments, and for Charcoal/Skin/C4 mixture

IDENTIFICATION OF EXPLOSIVES AND OTHER

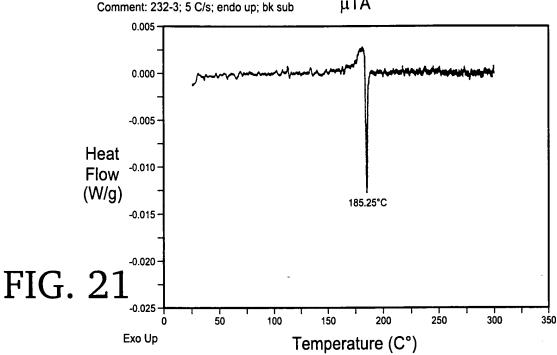
CONTROLLED SUBSTANCES

Sample: RDX from CHCL

Size: 0.0000 mg

Method: 25°C to 300°C @ 5 C/s





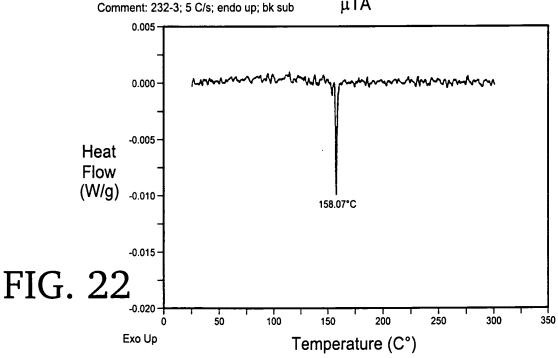
MicroDSC of RDX with heating rate of 5°C/sec

Sample: TATP Size: 0.0000 mg

Method: 25.000°C to 301.000°C @ 5

μΤΑ

MicroDSC of TATP



IDENTIFICATION OF EXPLOSIVES AND OTHER

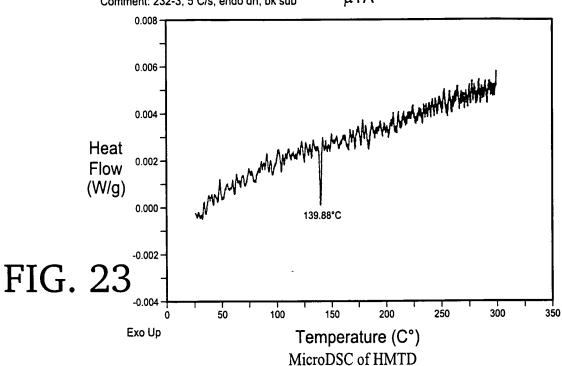
CONTROLLED SUBSTANCES

Sample: HMTD Size: 0.0000 mg

Method: 25°C to 300°C @ 5 C/s

Comment: 232-3; 5 C/s; endo dn; bk sub





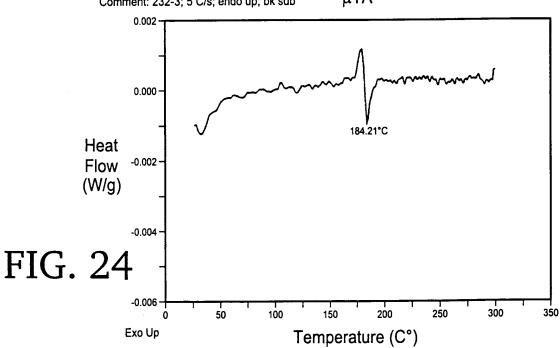
Sample: RDX from CHCL

Size: 0.0000 mg

Method: 25°C to 300°C @ 25 C/s

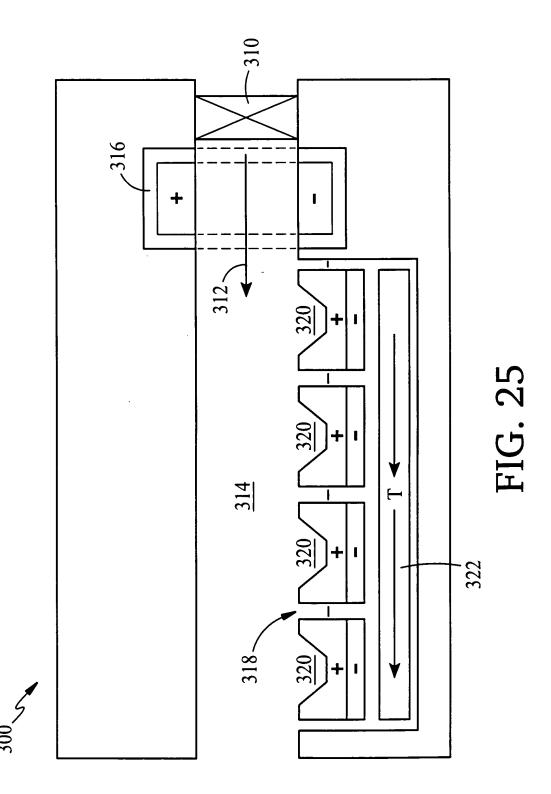
Comment: 232-3; 5 C/s; endo up; bk sub





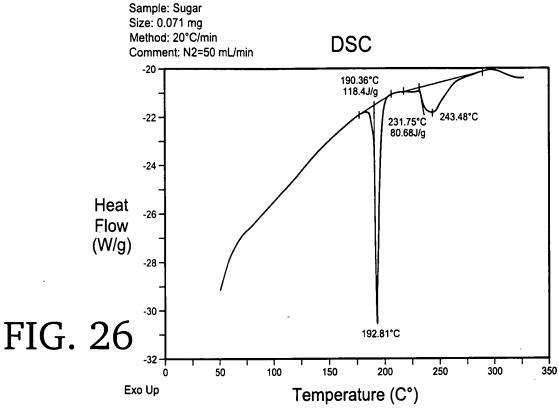
MicroDSC of RDX with heating rate of 25°C/sec

Matter No.: 08688-040002 Particles (S): William A. Curby et al.
TOWAL ANALYSIS FOR DETECTION AND IDENTIFICATION OF EXPLOSIVES AND OTHER CONTROLLED SUBSTANCES

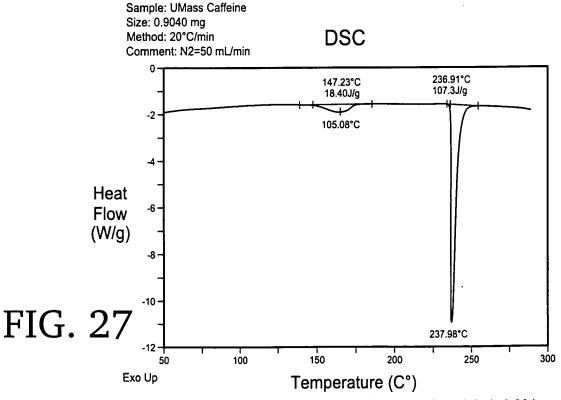


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RMAL ANALYSIS FOR DETECTION AND IDENTIFICATION OF EXPLOSIVES AND OTHER CONTROLLED SUBSTANCES



DSC thermogram of Sugar, sample weight is 0.071 mg



DSC thermogram of caffeine, a non-explosive, sample weight is 0.904 mg

IDENTIFICATION OF EXPLOSIVES AND OTHER

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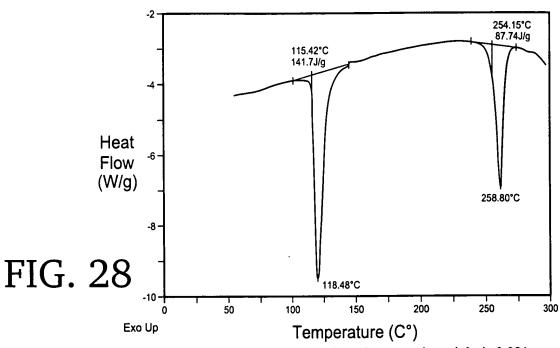
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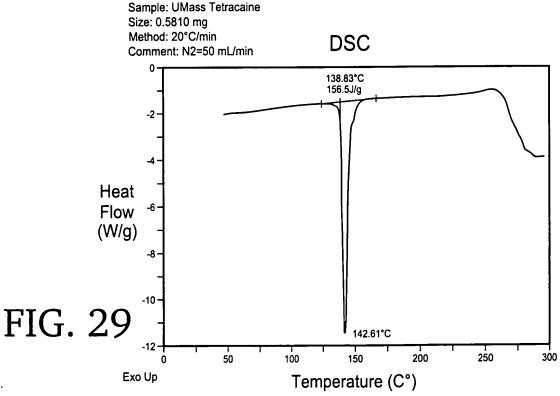
Sample: UMass Bupivacaine

Size: 0.3120 mg Method: 20°C/min Comment: N2=50 mL/min

DSC



DSC thermogram of Bupivacaine, sample weight is 0.321 mg



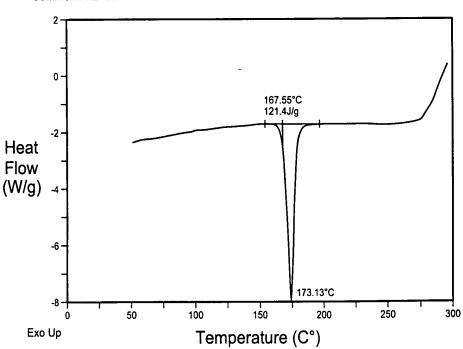
DSC thermogram of Tetrcaine, sample weight is 0.581 mg

Sample: UMass Prilocaine

Size: 0.4400 mg Method: 20°C/min

Comment: N2=50 mL/min





DSC thermogram of Prilocaine, sample weight is 0.44 mg

FIG. 30